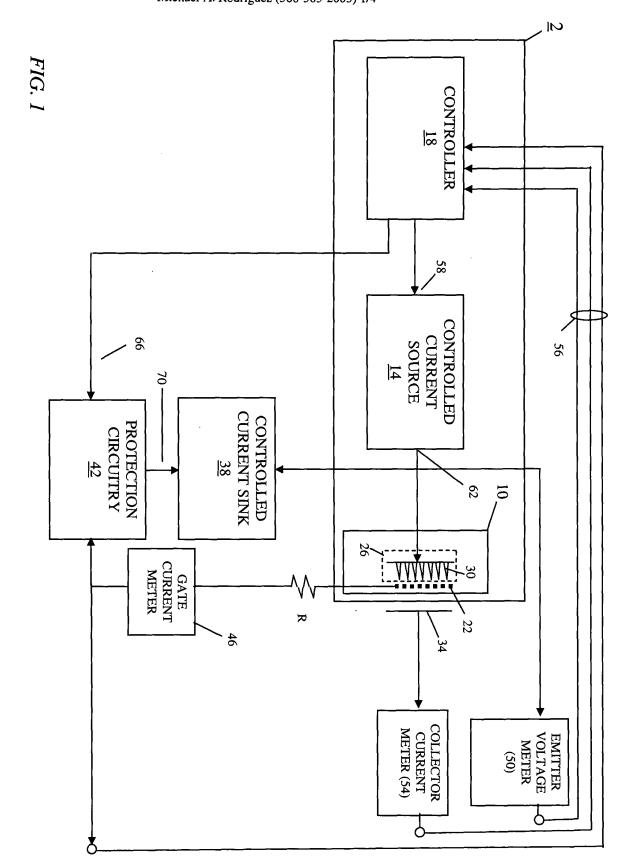
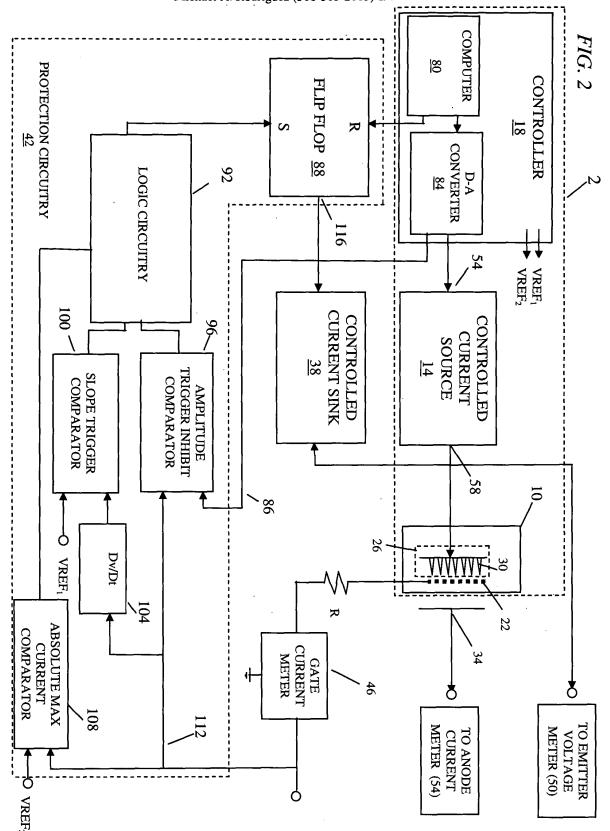
Title: System and Method for Controlling Emission by a Micro-Fabricated Charge-Emission Device Docket No. SRI-004 (US-4701-2)

Docket No. SRI-004 (US-4701-2) Express Mail No.: EU057611530US Michael A. Rodriguez (508-303-2003) 1/4



Title: System and Method for Controlling Emission by a Micro-Fabricated Charge-Emission Device

Docket No. SRI-004 (US-4701-2) Express Mail No.: EU057611530US Michael A. Rodriguez (508-303-2003) 2/4



Title: System and Method for Controlling Emission by a Micro-Fabricated Charge-**Emission Device** Docket No. SRI-004 (US-4701-2) Express Mail No.: EU057611530US Michael A. Rodriguez (508-303-2003) 3/4 <u>150</u> FIG. 3 **DETERMINE MANNER AND** (STEP 154) AMOUNT OF CURRENT TO BE SUPPLIED TO THE EMITTERS SIGNAL THE CURRENT SOURCE TO SUPPLY CURRENT TO THE (STEP 158) **EMITTERS** SEND REFERENCE VOLTAGES (STEP 162) TO THE PROTECTION CIRCUITRY COMPARATORS SUPPLY CURRENT TO **EMITTERS** (STEP 166) **EMIT CHARGE** (STEP 170) MEASURE GATE CURRENT **CHANGE** (STEP 174) RATE OF **CHANGE** (STEP 178) **EXCEEDS** THRESHOLD? Y SET FLIP-FLOP (STEP 182) ACTIVATE CURRENT SINK (STEP 186) RESET FLIP-FLOP (STEP 190)

DEACTIVATE CURRENT SINK

(STEP 194)

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Emission Device

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